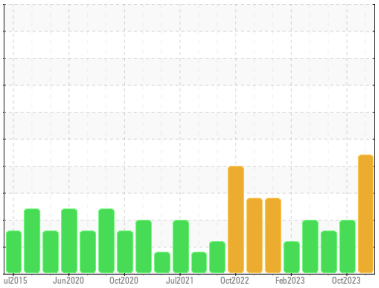
STAUFF
FILTRATION TECHNOLOGY

PROBLEM SUMMARY

Sample Rating Trend

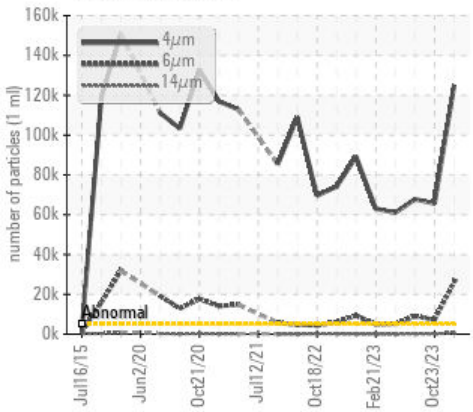


DIRT

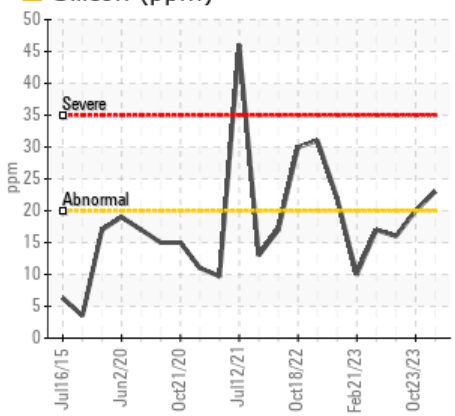
Machine Id
QL6 LEVELER LUBE OIL SYSTEM
Component
Hydraulic System
Fluid
TRIBOL GEAROIL 1100/320 (1500 GAL)

COMPONENT CONDITION SUMMARY

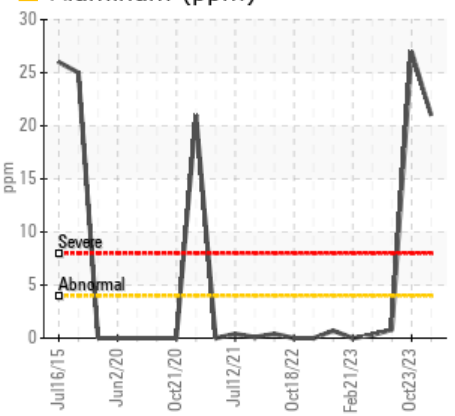
▲ Particle Trend



▲ Silicon (ppm)



▲ Aluminum (ppm)



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Aluminum	ppm	ASTM D5185m	>4	▲ **21**	▲ 27	<1
Silicon	ppm	ASTM D5185m	>20	▲ **23**	20	16
Particles >4µm		ASTM D7647	>5000	▲ **125074**	▲ 65588	▲ 67807
Particles >6µm		ASTM D7647	>1300	▲ **26156**	▲ 7178	▲ 8983
Particles >14µm		ASTM D7647	>160	▲ **589**	112	▲ 215
Particles >21µm		ASTM D7647	>40	▲ **116**	24	32
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **24/22/16**	▲ 23/20/14	▲ 23/20/15

Customer Id: IPSAXI
Sample No.: ST43806
Lab Number: 06009085
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Contact Required	---	---	?	Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

HISTORICAL DIAGNOSIS

23 Oct 2023 Diag: Don Baldridge

WEAR

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.The aluminum level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

11 Sep 2023 Diag: Doug Bogart

ISO

We recommend you service the filters on this component. Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

19 May 2023 Diag: Wes Davis

ISO

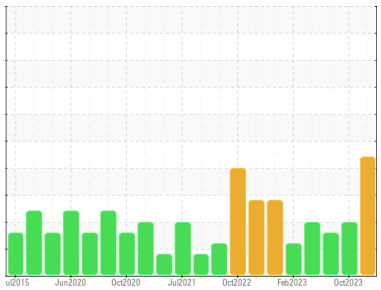
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report

STAUFF FILTRATION TECHNOLOGY

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id
QL6 LEVELER LUBE OIL SYSTEM
Component
Hydraulic System
Fluid
TRIBOL GEAROIL 1100/320 (1500 GAL)

DIAGNOSIS

▲ Recommendation
We recommend you service the filters on this component. Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

▲ Wear
The aluminum level is abnormal.

▲ Contamination
There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**ST43806**	ST43873	ST43874
Sample Date		Client Info		**13 Nov 2023**	23 Oct 2023	11 Sep 2023
Machine Age	mths	Client Info		**0**	0	0
Oil Age	mths	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>40	**<1**	<1	0
Chromium	ppm	ASTM D5185m	>4	**0**	<1	<1
Nickel	ppm	ASTM D5185m	>20	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>4	▲ **21**	▲ 27	<1
Lead	ppm	ASTM D5185m	>10	**0**	0	<1
Copper	ppm	ASTM D5185m	>60	**<1**	<1	<1
Tin	ppm	ASTM D5185m	>4	**0**	0	<1
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**<1**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	53
Barium	ppm	ASTM D5185m		**14**	12	4
Molybdenum	ppm	ASTM D5185m		**2189**	2120	1961
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m		**0**	0	1
Calcium	ppm	ASTM D5185m		**81**	89	97
Phosphorus	ppm	ASTM D5185m		**3358**	2881	3226
Zinc	ppm	ASTM D5185m		**1137**	1104	1133
Sulfur	ppm	ASTM D5185m		**6187**	5698	6674

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	▲ **23**	20	16
Sodium	ppm	ASTM D5185m		**0**	0	0
Potassium	ppm	ASTM D5185m	>20	**2**	2	0
Water	%	ASTM D6304	>0.05	**0.013**	0.014	0.003
ppm Water	ppm	ASTM D6304	>500	**133.8**	146.3	34.0

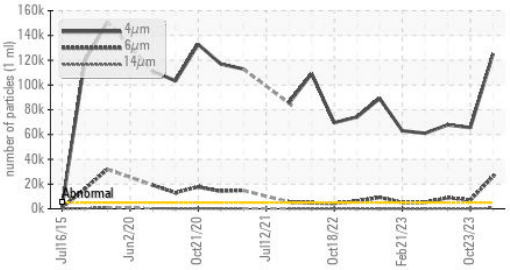
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **125074**	▲ 65588	▲ 67807
Particles >6µm		ASTM D7647	>1300	▲ **26156**	▲ 7178	▲ 8983
Particles >14µm		ASTM D7647	>160	▲ **589**	112	▲ 215
Particles >21µm		ASTM D7647	>40	▲ **116**	24	32
Particles >38µm		ASTM D7647	>10	**2**	1	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **24/22/16**	▲ 23/20/14	▲ 23/20/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**3.64**	3.86	3.75

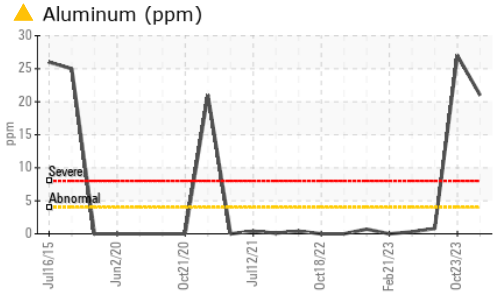
OIL ANALYSIS REPORT

STAUFF FILTRATION TECHNOLOGY

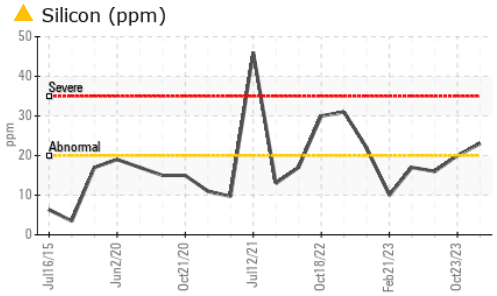
Particle Trend



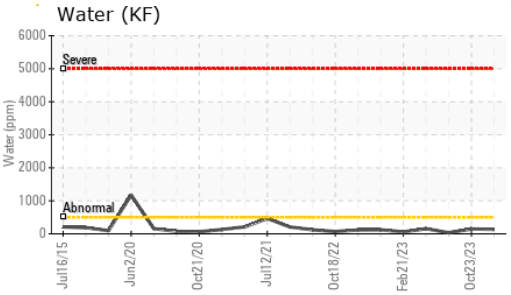
Aluminum (ppm)



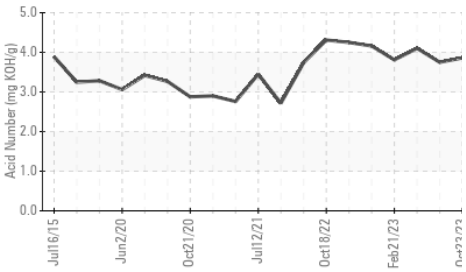
Silicon (ppm)



Water (KF)



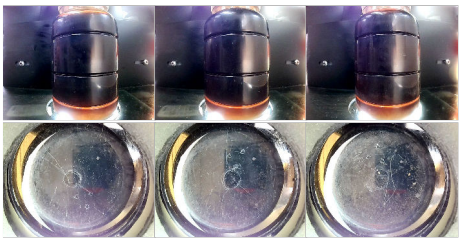
Acid Number



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

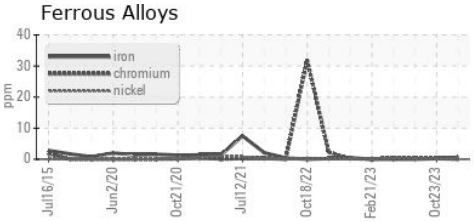
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	**297**	296	296

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

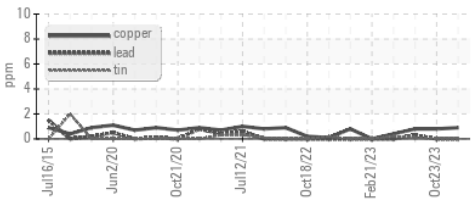


GRAPHS

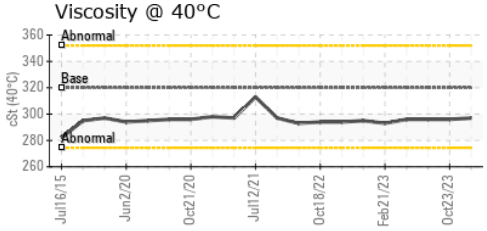
Ferrous Alloys



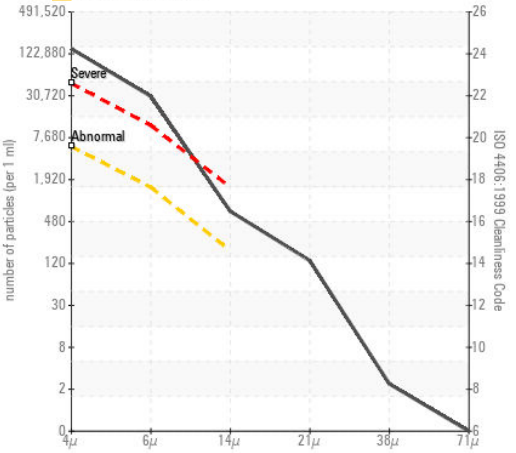
Non-ferrous Metals



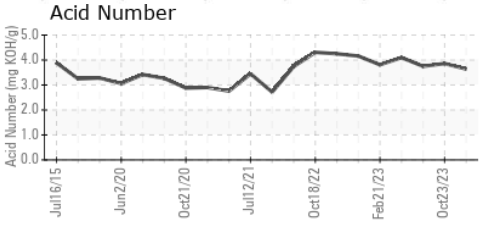
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST43806 **Received** : 15 Nov 2023
Lab Number : 06009085 **Diagnosed** : 19 Nov 2023
Unique Number : 10742847 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: KF)

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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